

3/4/02

L1 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2002 ACS  
AN 2002:84071 HCAPLUS  
DN 136:137398  
TI Solid state p-n heterojunction sensitized photovoltaic solar cell with  
electron and hole conductors  
IN Graetzel, Michael; Plass, Robert; Bach, Udo  
PA Ecole Polytechnique Federale de Lausanne (EPFL), Switz.  
SO Eur. Pat. Appl., 12 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
IC ICM H01L051-20  
ICS H01G009-20  
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)  
Section cross-reference(s): 74, 76

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1176646	A1	20020130	EP 2000-810681	20000728 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 2002017656	A1	20020214	US 2001-918115	20010730 <--
PRAI	EP 2000-810681	A	20000728	<--	
AB	A solid state p-n heterojunction comprises an electron conductor and a hole conductor; it further comprises a sensitizing semiconductor, the sensitizing semiconductor being located at an interface between the electron conductor and the hole conductor. In particular, the sensitizing semiconductor is in form of quantum-dots. A solid state sensitized photovoltaic cell comprises such a layered heterojunction between two electrodes.				
ST	solar photovoltaic cell solid state sensitized; electron hole conductor				

Jacob, Rebecca (ASRC)

385774

**From:** STIC-ILL  
**Sent:** Monday, March 04, 2002 12:52 PM  
**To:** Jacob, Rebecca (ASRC)  
**Subject:** RE: ILL order

-----Original Message-----

**From:** Bates, Darcy  
**Sent:** Monday, March 04, 2002 12:13 PM  
**To:** STIC-ILL  
**Cc:** Harrison, Jeff; Blalock, Derrick (ASRC); Thompson, Odessa (ASRC); Hendrickson, Anne; Hu, Shouxiang  
**Subject:** ILL order

Hi,

We do not have the following items in STIC. Please order these items for Shouxiang Hu, CP4-4D23.

ILL Ordering Information

Date Needed<3-7-02>

Art Unit or Location <2811>

Telephone Number <306-5729>

COMPLETED

# 1

**Title: CdTe and CdS as Extremely Thin Absorber Material in an eta-solar Cell (eta)**  
**Author(s):** Siebentritt, S.; Ernst, K.; Fischer, C.-H.; Koenenkamp, R.  
**CONFERENCE:** European photovoltaic solar energy conference-14th  
**Source: EUROPEAN PHOTOVOLTAIC SOLAR ENERGY CONFERENCE, 1997; VOL 2 P: 1823-1826**  
**H.S. Stephens & Associates, 1997**  
**ISBN: 1901675035; 1901675027**  
**LANGUAGE:** English **DOCUMENT TYPE:** Conference Papers  
**CONFERENCE EDITOR(S):** Ossenbrink, H. A.; Helm, P.; Ehmann, H.  
**CONFERENCE LOCATION:** Barcelona, Spain  
**CONFERENCE DATE:** Jun 1997 (199706) (199706)

# 2

**Title: Transparent p-type Semiconductors for the ETA Solar Cell with Extremely Thin Absorber**  
**Author(s):** Rost, C.; Ernst, K.; Siebentritt, S.; Koenenkamp, R.  
**CONFERENCE: Photovoltaic solar energy conversion-World conference; 2nd P: 212-215**  
**European Commission, 1998**  
**ISBN: 9282851796**  
**LANGUAGE:** English **DOCUMENT TYPE:** Conference Papers  
**CONFERENCE EDITOR(S):** Schmid, J.  
**CONFERENCE LOCATION:** Vienna  
**CONFERENCE DATE:** Jul 1998 (199807) (199807)

Thank you,

*Darcy Bates*

EIC 2800 Technical Information Specialist  
U.S. Patent & Trademark Office  
(703)306-5419 Email: STIC-EIC2800  
dbates@uspto.gov

Jacob, Rebecca (ASRC)

385773

From: STIC-ILL  
Sent: Monday, March 04, 2002 12:52 PM  
To: Jacob, Rebecca (ASRC)  
Subject: RE: ILL order

-----Original Message-----

From: Bates, Darcy  
Sent: Monday, March 04, 2002 12:13 PM  
To: STIC-ILL  
Cc: Harrison, Jeff; Blalock, Derrick (ASRC); Thompson, Odessa (ASRC); Hendrickson, Anne; Hu, Shouxiang  
Subject: ILL order

Hi,

We do not have the following items in STIC. Please order these items for Shouxiang Hu, CP4-4D23.

ILL Ordering Information

Date Needed<3-7-02>

Art Unit or Location <2811>

Telephone Number <306-5729>

# 1

Title: **CdTe and CdS as Extremely Thin Absorber Material in an eta-solar Cell (eta)**  
Author(s): Siebentritt, S.; Ernst, K.; Fischer, C.-H.; Koenenkamp, R.  
CONFERENCE: European photovoltaic solar energy conference-14th  
Source: **EUROPEAN PHOTOVOLTAIC SOLAR ENERGY CONFERENCE, 1997; VOL 2 P: 1823-1826**  
H.S. Stephens & Associates, 1997  
ISBN: 1901675035; 1901675027  
LANGUAGE: English DOCUMENT TYPE: Conference Papers  
CONFERENCE EDITOR(S): Ossenbrink, H. A.; Helm, P.; Ehmann, H.  
CONFERENCE LOCATION: Barcelona, Spain  
CONFERENCE DATE: Jun 1997 (199706) (199706)

09/9/8,115

COMPLETED